

Application No.: 09/917,786Docket No.: 1509-206**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A data reader arranged to read a data-holding medium containing data comprising both user and non-user data, ~~set-said data~~ being held in at least one set, and ~~datasets arranged from the at least one set, each said set being arranged into datasets~~, said non-user data holding information relating to said user data and being interspersed therewith, said data reader comprising at least one read head arranged to read said data-holding medium and generate a data signal comprising user data and non-user data, said non-user data being arranged to identify said user data within said sets, processing circuitry being arranged to (a) receive and process said data signal, ~~and (b) obtain said user data from said data signal using said non-user data to identify said user data within said data signal, and (c) occupy a state reflecting whether said data being read from the data-holding medium is in an overlap zone in which sets of data can originate from a plurality of datasets.~~

2. (Canceled)

3. (currently amended) A data reader according to claim 2-1 wherein said processing circuitry comprises a timer arranged to time from the end of the last set of user data within a dataset, and said processing circuitry is arranged to enter said state reflecting that data being read from [[a]] said data-holding medium is in an overlap zone until said timer reaches a

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predetermined value.

4. (original) A data-reader according to claim 3 wherein said processing circuitry is arranged to monitor said data signal and reset said timer should said data signal comprise a re-write of substantially the same set of user data from a dataset before said timer reaches said predetermined value.

5. (currently amended) A data reader according to claim 1 wherein said processing circuitry is arranged to monitor said data signal and further arranged to determine whether a set of user data has been written to [[a]] said data-holding medium a plurality of times by monitoring said non-user data within said data signal.

6. (currently amended) A data reader according to claim 5 wherein said processing circuitry is arranged to reject an earlier received set of user data in ~~favour~~favor of a later substantially identical set of user data if said processing circuitry determines that said set of user data has been written to said data-holding medium a plurality of times.

7. (Canceled)

8. (currently amended) ~~A data reader according to claim 1 wherein~~ A data reader arranged to read a data-holding medium containing data comprising both user and non-user data, said data being held in at least one set, and datasets arranged from the at least one set, said non-user data holding information relating to said user data and being interspersed therewith, said data reader

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comprising at least one read head arranged to read said data-holding medium and generate a data signal comprising user data and non-user data, said non-user data being arranged to identify said user data within said sets, processing circuitry being arranged to receive and process said data signal and obtain said user data from said data signal using said non-user data to identify said user data within said data signal. said processing circuitry comprises a timer arranged to time from the end of the last set of user data within a dataset and is arranged to occupy a state reflecting that said user data being read from said data-holding medium is in an exclusive zone, indicating that said user data should only occur from a single dataset, once said timer has reached a predetermined value.

9. (currently amended) A data reader according to claim 1 wherein said processing circuitry is arranged to monitor said non-user data to determine whether ~~neighbouring~~neighboring sets of user data being read from a said ~~data-holing~~data holding medium were written in the same write pass.

10. (currently amended) A data reader according to claim ~~2~~1 wherein said processing circuitry is arranged to monitor said non-user data and identify the identity of said sets of data being read from a said data-holding medium, and further arranged to determine if more than two datasets have occurred within an overlap zone.

11. (original) A data reader according to claim 10 wherein said processing circuitry is arranged to reject sets of data that occur from greater than a second dataset within said overlap zone.

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12. (currently amended) A data reader according to claim 10 wherein said processing circuitry is arranged to reject earlier received sets of data once sets of user data are received from [[a]] said data-holding medium from greater than a second dataset within said overlap zone.

13. (currently amended) ~~A data reader according to claim 1 wherein~~ A data reader arranged to read a data-holding medium containing data comprising both user and non-user data, said data being held in at least one set, and datasets arranged from the at least one set, said non-user data holding information relating to said user data and being interspersed therewith, said data reader comprising at least one read head arranged to read said data-holding medium and generate a data signal comprising user data and non-user data, said non-user data being arranged to identify said user data within said sets, processing circuitry being arranged to receive and process said data signal and obtain said user data from said data signal using said non-user data to identify said user data within said data signal, said processing circuitry is arranged to occupy a state reflecting that data being read from a said data-holding medium is in an overwrite zone in which a first dataset being read therefrom can be overwritten by a second dataset, before the end of said first dataset is reached.

14. (currently amended) A data reader according to claim 13 in which said processing circuitry is arranged to occupy a state reflecting that data being read from [[a]] said data-holding medium is beyond said overwrite zone.

15. (currently amended) ~~A data reader according to claim 1 in which~~ A data reader arranged to read a data-holding medium containing data comprising both user and non-user data, said data

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being held in at least one set, and datasets arranged from the at least one set, said non-user data holding information relating to said user data and being interspersed therewith, said data reader comprising at least one read head arranged to read said data-holding medium and generate a data signal comprising user data and non-user data, said non-user data being arranged to identify said user data within said sets, processing circuitry being arranged to receive and process said data signal and obtain said user data from said data signal using said non-user data to identify said user data within said data signal, a zone detector is provided to interpret said non-user data and determine whether said user data is from the same dataset.

16. (currently amended) ~~A data reader according to claim 1 in which~~ A data reader arranged to read a data-holding medium containing data comprising both user and non-user data, said data being held in at least one set, and datasets arranged from the at least one set, said non-user data holding information relating to said user data and being interspersed therewith, said data reader comprising at least one read head arranged to read said data-holding medium and generate a data signal comprising user data and non-user data, said non-user data being arranged to identify said user data within said sets, processing circuitry being arranged to receive and process said data signal and obtain said user data from said data signal using said non-user data to identify said user data within said data signal, said processing circuitry is arranged to occupy a state reflecting the status of sets of data being read from a said data-holding medium, ~~and~~ said processing circuitry ~~comprises~~ comprising a zone detector to interpret said non-user data and determine whether said user data is from the same dataset, and in which said zone detector is arranged so that it controls the state occupied by said processing circuitry.

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17. (original) A data storage device incorporating a data reader according to claim 1.

18. (currently amended) A method of reading data from a data-holding medium containing user data held in a plurality of sets and interspersed with non-user data, said non-user data ~~holding data holding~~ information relating to said user data, the method comprising reading said non-user data to identify said user data within said sets and obtain said user data from said data-holding medium, said method further comprising arranging said sets of user data into datasets, the identity of which are provided by the non-user data, ~~and~~ monitoring the non-user data to ascertain the identity of the dataset being read from the data-holding medium, and using the non-user data to determine whether data being read from the data-holding medium is in an overlap zone in which sets of data can originate from a plurality of datasets.

19. (Canceled)

20. (currently amended) ~~A method according to claim 18 which comprises~~ A method of reading data from a data-holding medium containing user data held in a plurality of sets and interspersed with non-user data, said non-user data-holding information relating to said user data, the method comprising reading said non-user data to identify said user data within said sets and obtain said user data from said data-holding medium said method further comprising arranging said sets of user data into datasets, the identity of which are provided by the non-user data, and monitoring the non-user data to ascertain the identity of the dataset being read from the data-holding medium and using the non-user data to determine when the end of a dataset has occurred further comprising timing from the end of the last set of user data within a dataset to ensure that no re-writes of the last or any other set of user data from that dataset are present on the data-holding

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medium.

21. (original) A method according to claim 20 which comprises using the non-user data to determine if any of the sets of data from a dataset have been re-written and restarting the timing if any re-writes are detected once the last set of user data within a dataset has been read.

22. (original) A method according to claim 18 which comprises using the non-user data to determine if any of the sets of data from a dataset have been written a plurality of times to the data-holding medium during writing of the data to the data-holding medium.

23. (currently amended) A method according to claim 22 comprising rejecting an earlier set of data from a dataset[[,]] read from the data-holding medium, in ~~favour~~favor of a later received substantially identical set of data from a dataset once it is detected that a set of data has been written a plurality of times to the data-holding medium.

24. (Canceled)

25. (original) A method according to claim 21 comprising asserting that data being read from the data-holding medium is in an exclusive zone, such that data should only occur from a single dataset, once the timing has reached a predetermined value.

26. (currently amended) A method according to claim ~~19-18~~ comprising using a state machine to monitor whether the data being read from the data-holding medium is in an overlap

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zone.

27. (currently amended) A method ~~according to claim 18 which comprises of reading data from a data-holding medium containing user data held in a plurality of sets and interspersed with non-user data, said non-user data-holding information relating to said user data, the method comprising reading said non-user data to identify said user data within said sets and obtain said user data from said data-holding medium said method further comprising arranging said sets of user data into datasets, the identity of which are provided by the non-user data, monitoring the non-user data to ascertain the identity of the dataset being read from the data-holding medium, and detecting whether data being read from the data-holding medium is in an overwrite zone in which a first dataset being read therefrom can be overwritten by a second dataset, before the end of said first dataset is reached.~~

28. (currently amended) A method according to claim 27 comprising ~~using a state machine to monitor monitoring~~ whether the data being read from the data-holding medium is in an overwrite zone by using a state machine.

29. (currently amended) A method according to claim 18 comprising ~~monitoring the non-user data to determine determining~~ whether sets of data being read from the data-holding medium were written in the same pass by monitoring the non-user data.

30. (original) A method according to claim 29 comprising monitoring a portion of the non-user data that provides a numerical value representing the pass on which the set of data being read

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was written, further comprising detecting whether the numerical value is altered for neighboring sets of data.

31. (currently amended) A method according to claim 19-18 comprising monitoring the identity of the datasets being read from the data-holding medium and determining if more than two datasets have occurred within the overlap zone.

32. (original) A method according to claim 31 comprising rejecting sets of data read from the data-holding medium that occur from a third or higher dataset that occurs within the overlap zone.

33. (original) A method according to claim 31 comprising rejecting sets of data from earlier datasets read from the data-holding medium within the overlap zone if more than two datasets occur within the overlap zone.

34. (original) A computer readable medium having stored therein instructions for causing a processing unit to execute the method of claim 18.

35. (Canceled)